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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO |
|---|---------------|----------------------|-------------------------|-----------------|
| 09/662,045 | 09/15/2000 | Stefan Vilsmeier | SCHWP0129US | 5003 |
| 75 | 90 11/15/2004 | | EXAM | INER |
| Don W. Bulson, Esq. | | | KIM, CHONG R | |
| Renner, Otto, Boisselle & Sklar, LLP 19th Floor | | | ART UNIT | PAPER NUMBER |
| 1621 Euclid Ave. Cleveland, OH 44115 | | | 2623 | |
| | | | DATE MAILED: 11/15/2004 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | Application No. | Applicant(s) | | | |
|--|--|---|--|--|--|
| Advisory Action | 09/662,045 | VILSMEIER ET AL. | | | |
| , | Examiner | Art Unit | | | |
| | Charles Kim | 2623 | | | |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address | | | | | |
| THE REPLY FILED 04 October 2004 FAILS TO PLACE. Therefore, further action by the applicant is required to aviral rejection under 37 CFR 1.113 may only be either: (1) condition for allowance; (2) a timely filed Notice of Appeal Examination (RCE) in compliance with 37 CFR 1.114. | oid abandonment of this applicate a timely filed amendment which | ation. A proper reply to a name of the places the application in | | | |
| PERIOD FOR RE | PLY [check either a) or b)] | | | | |
| a) The period for reply expiresmonths from the mailing b) The period for reply expires on: (1) the mailing date of this A no event, however, will the statutory period for reply expire I ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS 706.07(f). Extensions of time may be obtained under 37 CFR 1.136(a). The fee have been filed is the date for purposes of determining the period fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of (2) as set forth in (b) above, if checked. Any reply received by the Official filed, may reduce any earned patent term adjustment. See 37 CFR 1.17(a) is calculated from: (1) the expiration date of (2) as set forth in (b) above, if checked. Any reply received by the Official filed, may reduce any earned patent term adjustment. See 37 CFR 1.17(a) is calculated from: (1) the expiration of the mailing that the mailing date of the Any reply calculated from: (1) the mailing date of the Any reply calculated from: (1) the expiration of the mailing date of the file of the fi | Advisory Action, or (2) the date set forth ater than SIX MONTHS from the mailing FILED WITHIN TWO MONTHS OF THE date on which the petition under 37 CF of extension and the corresponding amount the shortened statutory period for reply the later than three months after the mail | g date of the final rejection. HE FINAL REJECTION. See MPEP R 1.136(a) and the appropriate extension unt of the fee. The appropriate extension originally set in the final Office action; or | | | |
| A Notice of Appeal was filed on Appellant's 37 CFR 1.192(a), or any extension thereof (37 CFF). | Brief must be filed within the pe | | | | |
| 2. The proposed amendment(s) will not be entered be | ecause: | | | | |
| (a) They raise new issues that would require further consideration and/or search (see NOTE below); | | | | | |
| (b) ☐ they raise the issue of new matter (see Note below); | | | | | |
| (c) they are not deemed to place the application in issues for appeal; and/or | n better form for appeal by mate | rially reducing or simplifying the | | | |
| (d) they present additional claims without canceli NOTE: | ng a corresponding number of f | inally rejected claims. | | | |
| 3. Applicant's reply has overcome the following reject | tion(s): <u>112 first paragraph rejec</u> | tions. | | | |
| 4. Newly proposed or amended claim(s) would canceling the non-allowable claim(s). | be allowable if submitted in a se | eparate, timely filed amendment | | | |
| 5. ☑ The a) ☐ affidavit, b) ☐ exhibit, or c) ☑ request for application in condition for allowance because: <u>Se</u> | reconsideration has been consi e Continuation Sheet. | dered but does NOT place the | | | |
| 6. The affidavit or exhibit will NOT be considered becaraised by the Examiner in the final rejection. | ause it is not directed SOLELY t | o issues which were newly | | | |
| 7. For purposes of Appeal, the proposed amendment explanation of how the new or amended claims we | | | | | |
| The status of the claim(s) is (or will be) as follows: | | | | | |
| Claim(s) allowed: | , , , , , , , , , , , , , , , , , , , | | | | |
| Claim(s) objected to: | | | | | |
| Claim(s) rejected: | • | | | | |
| Claim(s) withdrawn from consideration: | | | | | |
| 8. The drawing correction filed on is a) app | roved or b) disapproved by t | he Examiner | | | |
| 9. Note the attached Information Disclosure Statement(s)(PTO-1449) Paper No(s). | | | | | |
| 10. Other: | | | | | |
| | | Jon Chang Primary Examiner | | | |

Continuation of 5. does NOT place the application in condition for allowance because: Applicants argue (page 6) that their claimed invention (claim 1) differs from the prior art because "there is no motivation to combine Cosman and Nayar." The Examiner disagrees. Cosman is concerned with mapping a three-dimensional shape of an object, more specifically a patient's head, and providing a three dimensional graphic representation of the head for surgical analysis [col. 10, lines 59-62 and figure 5]. Cosman explains that this three-dimensional graphic representation is of vital importance to surgeons, since it provides them with the capability of visualizing the operating area (col. 1, lines 24-31).

Nayar is also concerned with mapping a three-dimensional shape of an object (page 218). Nayar explains that his method enhances the accuracy of the three-dimensional mapping process (abstract). Nayar also explains that his method can be implemented in

a variety of imaging applications (abstract).

Cosman and Nayar are combinable because they are both concerned with image processing methods that deal with mapping a three-dimensional shape of an object. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to modify the three-dimensional mapping process of Cosman in view of Nayar. The suggestion/motivation for doing so would have been to enhance the surgical procedure by providing an accurate three-dimensional graphic representation of the patient's head; thereby providing the surgeons with an accurate visualization of the operating area.

Applicants further argue (page 7) that their claimed invention (claim 19) differs from the prior art because "neither Cosman nor Nayar, taken alone or in combination, disclose or fairly suggest assigning a location and shape of a mapped three-dimensional body part in a navigation system based on the position of at least one marker capture by the camera." The Examiner disagrees. Cosman explains that the position of the index markers are utilized to locate and define the three-dimensional object (col. 5, lines 44-62 and figure 5). Note that the position of the markers (558A, 558B, 558C) in figure 5 assigns a shape and location of the mapped three-dimensional body part.